

# The Deltagram

TRADE MARK REG. U. S. PAT. OFF.

VOLUME SIXTEEN

Issue No. 5, 1946, '47

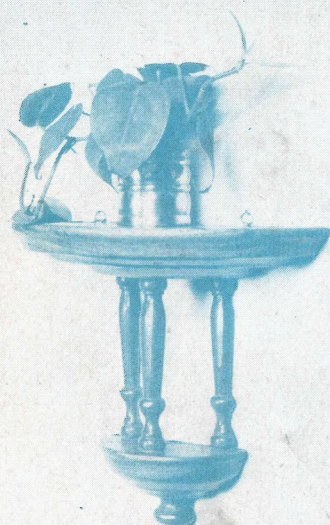
PRICE TEN CENTS

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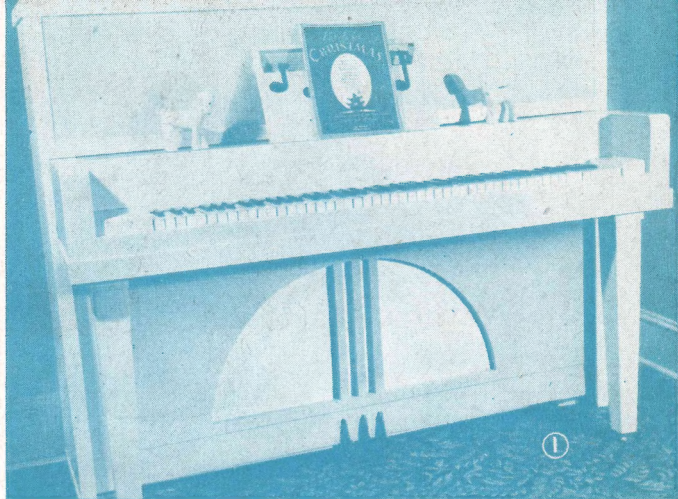
- ★ BIRD HOUSES
- ★ FLOWER - BARROW
- ★ GUN CABINET
- ★ DESK ★ WALL SHELF
- ★ CANDLE STICKS
- ★ DESIGNS ★ ETC.







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## With Delta CRAFTERS

☆ The piano shown in Photo No. 1 was remodeled from an old upright model. Mr. German got the idea from an article featured in Issue No. 4, Vol. 15 DeltaGram. All the old wood was removed and replaced with new material and refinished by Mr. and Mrs. German.

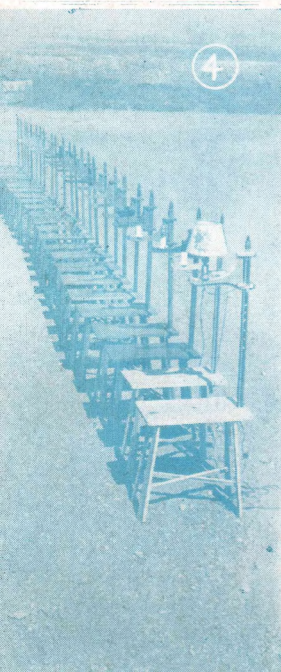
☆ Wall Shelf in Photo No. 2 was made by Mr. Heider of Milwaukee, Wisconsin. The original design appeared in an earlier issue of the DeltaGram.

☆ The thirteen and one-half foot row boat (Photo No. 3) was made by Eric Crawford of Trail British Columbia, Canada from our Utility Boat Plan No. 4633.

☆ Work Bench and Tool Panel, Photos No. 5 and No. 6 are the work of Mr. Ashrim of Jamaica, L. I., N. Y. Our readers should get a pretty good idea on how to keep their shop in tip-top shape.



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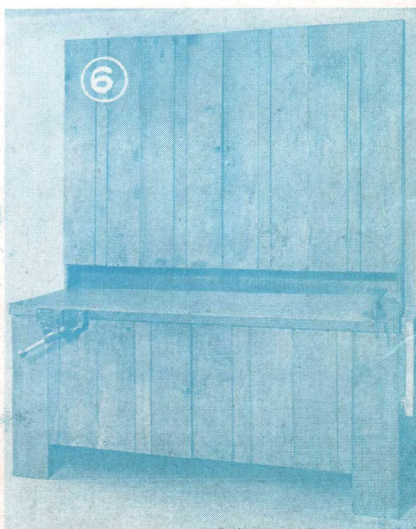


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☆ Mr. Schirmacher's pupils of the Cottonwood School Shop of Cottonwood, Arizona made the 25 Colonial lamp and table combination as shown in Photo No. 4. The project appeared in our publication Project Book No. 9.



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# The Deltagram

TRADE MARK REG. U. S. PAT. OFF.

★ A MAGAZINE FOR CRAFTSMEN

★ PUBLISHED BY THE DELTA MANUFACTURING COMPANY, MILWAUKEE, WISC. SOLD ONLY BY SUBSCRIPTION - 50¢ THE YEAR.

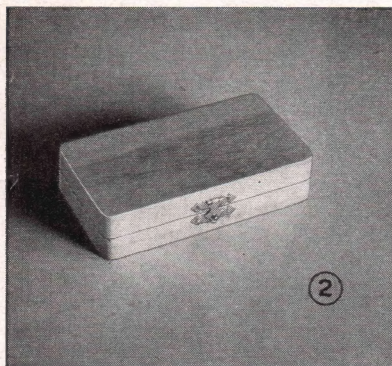
★ E. G. HAMILTON - MANAGING EDITOR

A. M. WARKASKE - TECH. EDITOR

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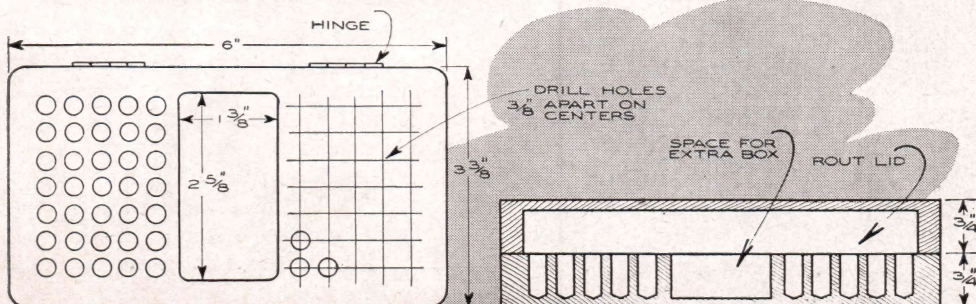
TEN CENTS



## CARTRIDGE BOX FOR THE PISTOL SHOOTER

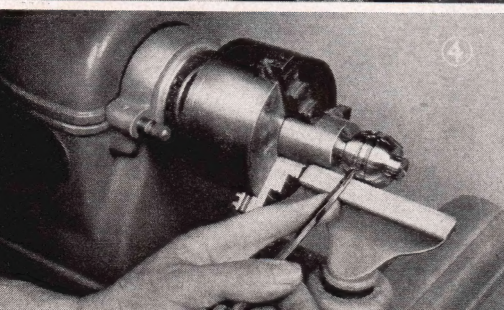
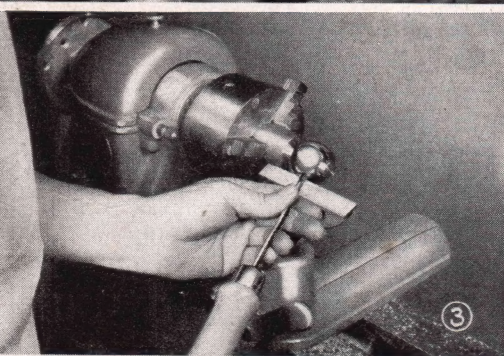
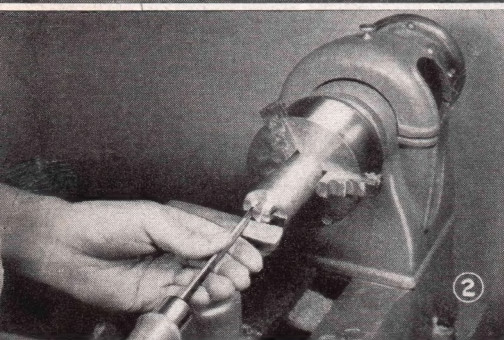
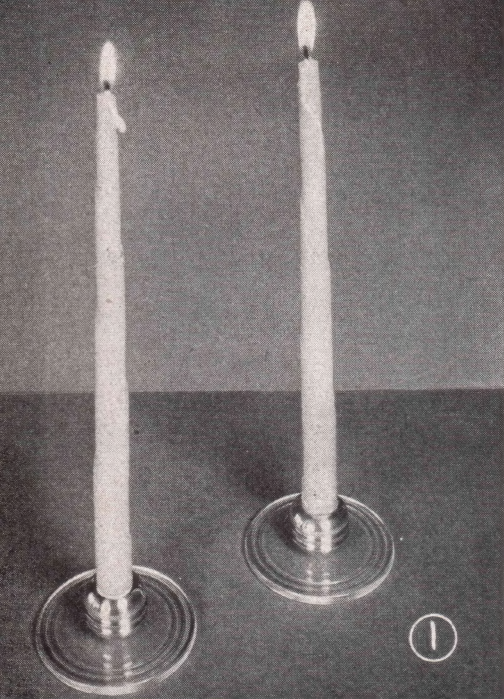
☆ The above pictured box will hold 70 rounds of .22 cartridges plus a space in the center for an extra full box. Such a cartridge box is ideal for the target shooter who must load five rounds at a time in match competition. The box is made from two solid pieces of  $\frac{3}{4}$ " maple. The upper part is routed out as shown in the drawing,

while the lower half contains a center routed section for the extra box, the balance of the space being taken up with holes drilled with a No. 2 drill. The box is hinged on the outside at the back and fitted with a suitable catch on the outside front surface. Finish with white shellac.





# *Metal and Plastic* **CANDLE STICKS**



☆ HERE is an attractive pair of candle sticks which you can turn with the new carbide tipped turning chisels. The finished products are shown in Photograph No. 1. The plastic base is turned from  $\frac{1}{4}$ " clear Plexiglas, while the cup itself is turned from  $1\frac{1}{2}$ " free turning brass rod. Photograph No. 2 shows the brass rod chucked in the lathe, using the 3-jaw self-centering chuck. The bottom of the candle cup is turned first. (See full-size drawing on the following page) After turning this bottom step, the bowl itself is turned round as shown in Photograph No. 3. The round nose carbide tipped turning chisel is used for this operation. This chisel is used free-hand as described in the announcement enclosed with your last Deltagram. The tip of the chisel is pivoted or rolled back and forth to get a good, clean cutting action.

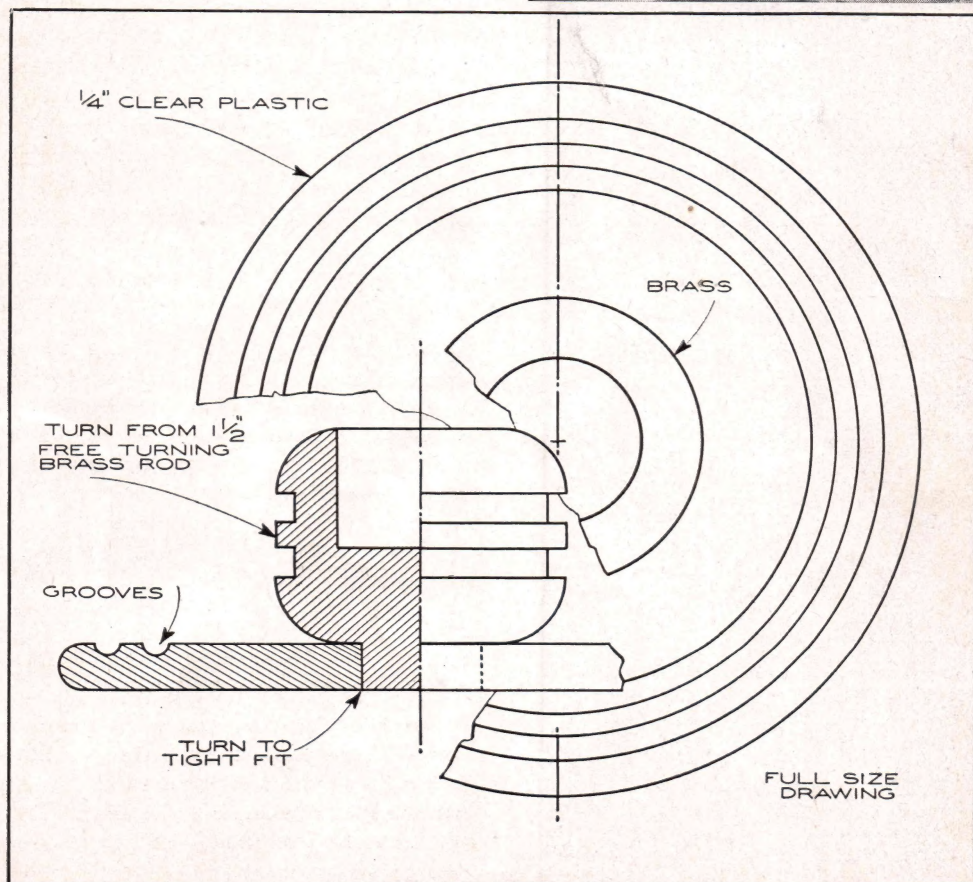
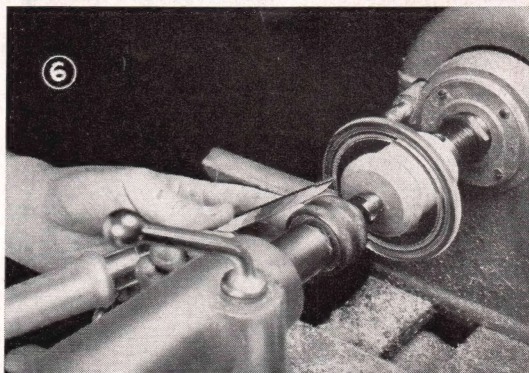
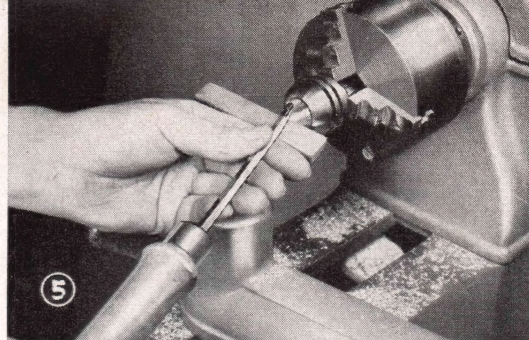
After the bowl of the cup has been turned round, the next step is to cut two grooves around the center. These grooves are cut slightly wider than the tip of the  $\frac{1}{8}$ " square chisel. Use the round nose chisel to start the grooves and then finish off the inside corners with the square nose. The cut is kept slightly wider than the width of the chisel and the tip is moved back and forth in this groove so that the full width of the cut does not bear on the chisel tip at one time. After the grooves are cut the cup is cut off from the brass rod and reversed in the lathe chuck so that the 3-jaws of the chuck grip the lower step of the candle stick. (See Photograph No. 5.) The top of the cup is then finished off round and the hole for the



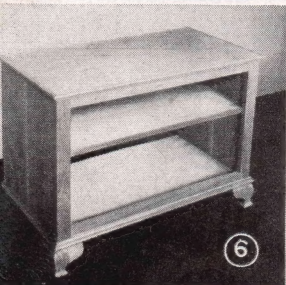
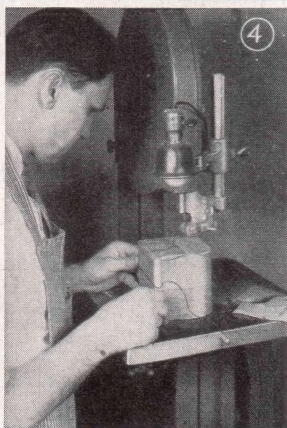
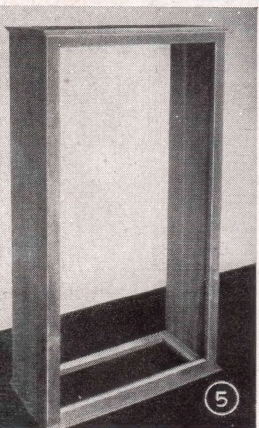
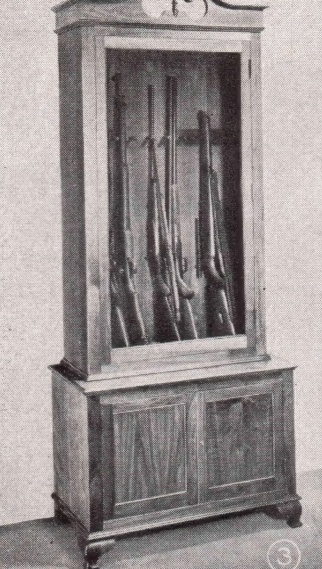
base of the candle is turned into the end. The brass is then polished with steel wool and polishing compound until a high lustre is obtained. Fine emery cloth will help take out any scratches which might occur.

The center hole in the plastic is drilled first, and this hole is fitted over a wooden chuck. An extra piece of wood is then placed on the tailstock center and tightened against the plastic as shown in Photograph No. 6. This holds the circular piece of plastic in place while the edge and grooves are turned as shown in the drawing. Finish the plastic with buffing compound to obtain a high polish.

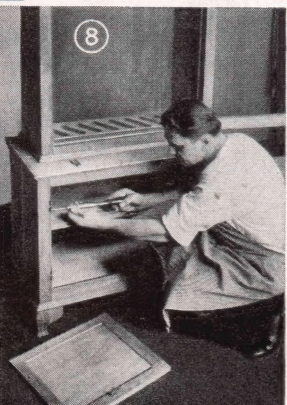
A matching table center piece will be shown in the next issue.







*The cabinet is made in two sections which may be fastened together with carriage bolts hidden underneath the base for the gun stocks.*



# GUN CABINET

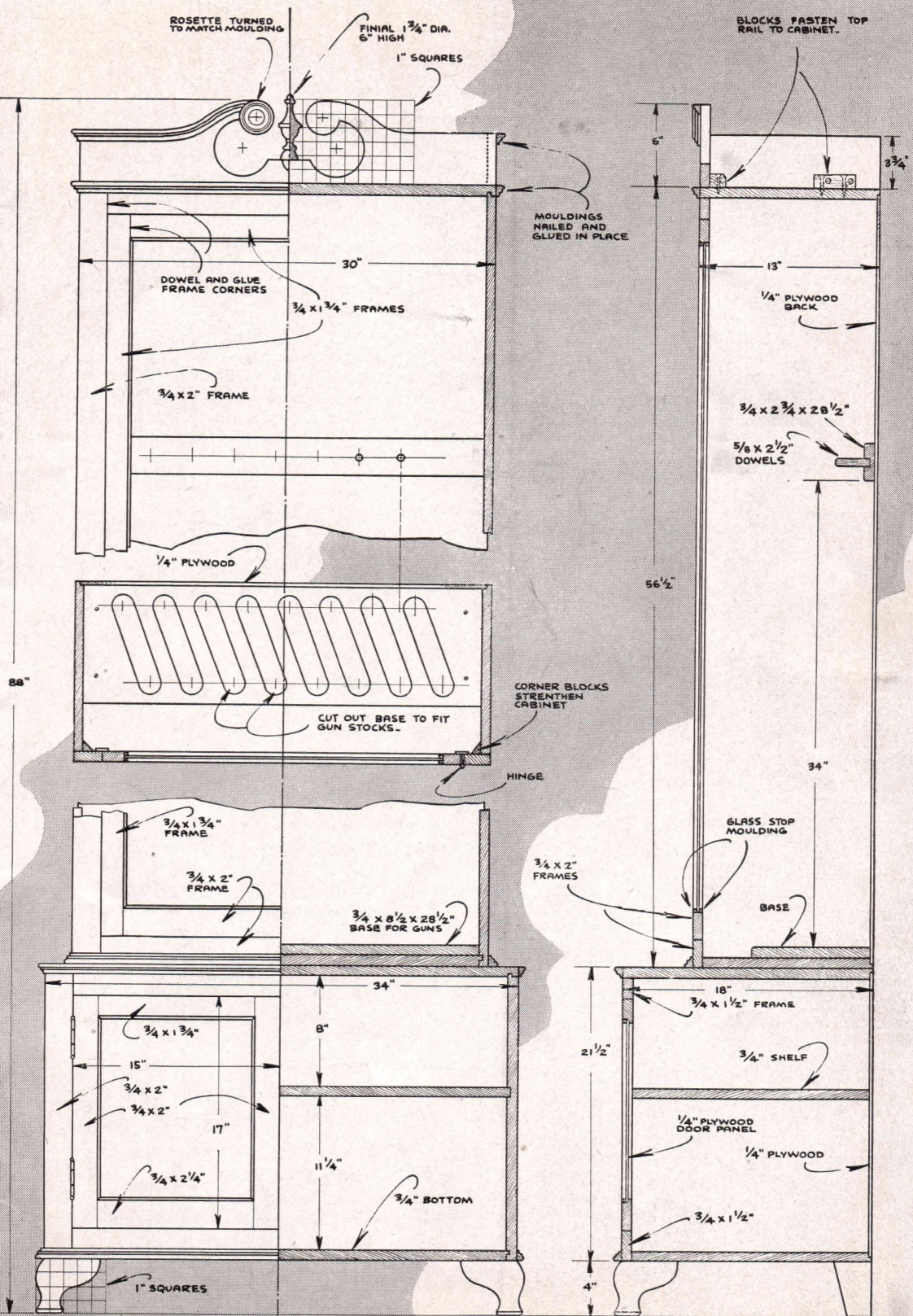
☆ HERE is a fine gun cabinet from walnut in a design which many of your readers have requested. This cabinet is made in two parts so that the upper and lower sections may be used separately if you desire. When the upper section is to be used alone, four feet similar to the ones shown on the lower section should be attached. Complete construction details are shown in the drawing on the following page.

The mouldings are run in strips and may be run with the moulding head on the circular saw with the exception of the top curved moulding which must be run on the shaper.

The finial and the rosettes shown on the top rail are turned on the lathe. The base board for the butts of the gun stocks should be cut out to fit your individual guns. Pegs as shown in the sectional view on the following page are sufficient to hold the barrels in place.

The top door is glass, while the bottom doors are  $\frac{1}{4}$ " walnut panel. Locks should be fitted to both the top and bottom doors. Finish the walnut natural or stain darker if you like. It should then be sealed with white shellac and finished with good spar varnish.







# IMPORTANT NOTICE!

## YOUR SUBSCRIPTION TO THE DELTAGRAM EXPIRES WITH THE NEXT ISSUE

☆ WE ARE still faced with a paper shortage and will not be able to send separate subscription blanks during the summer as we have during previous years. This is your notice that your subscription expires with the next issue (unless you have a two-year subscription).

In addition to the shortage, the cost of paper, labor, and the mechanical costs in printing have increased tremendously. We are, therefore, faced with the situation of passing a part of that cost on to you, or of discontinuing the Deltagram entirely.

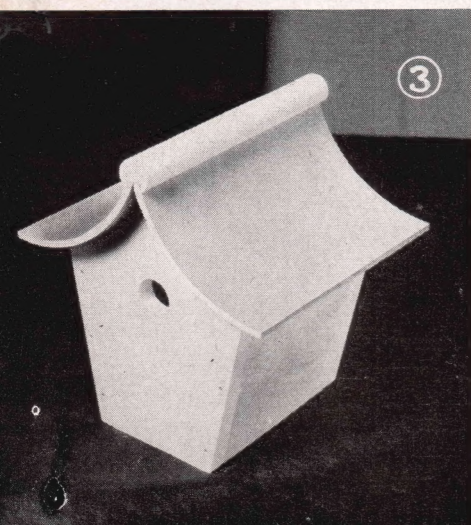
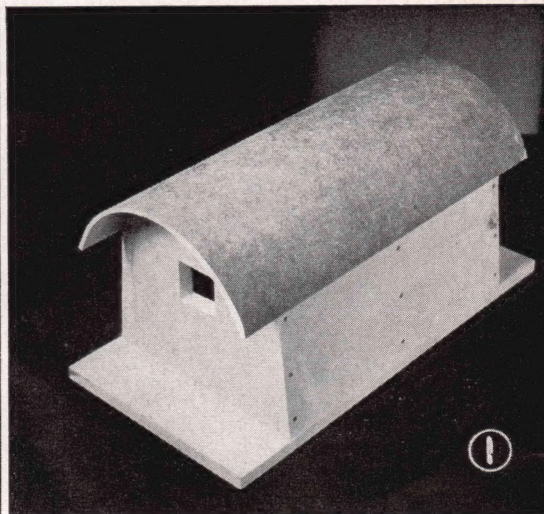
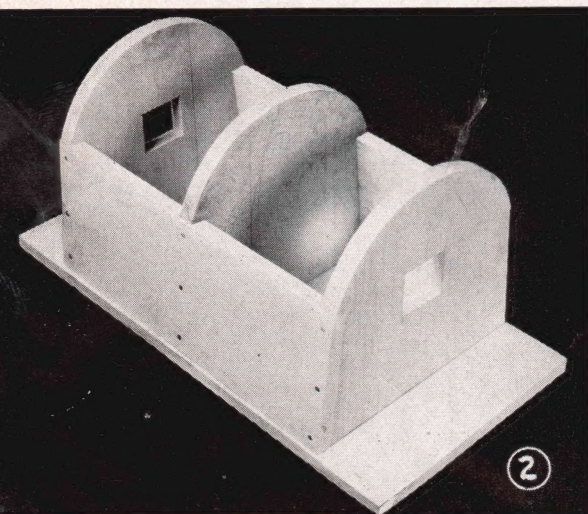
The demand is so great for this material that the latter course has been overruled in favor of a small increase in cost.

Therefore, the new subscription cost will be 75c a year. If you already have a two year subscription entered, it will continue until it expires at the old price.

In the next issue, your last, you will find an order blank. Fill it in immediately, enclose your 75c, and mail it to us. The subscriptions may still have to be limited, so hurry and get yours to us immediately.

We have many new plans for next season—better designs—more of the kind of projects you have requested—new ideas. We will do our very best to make it the best ever. You won't want to miss it.

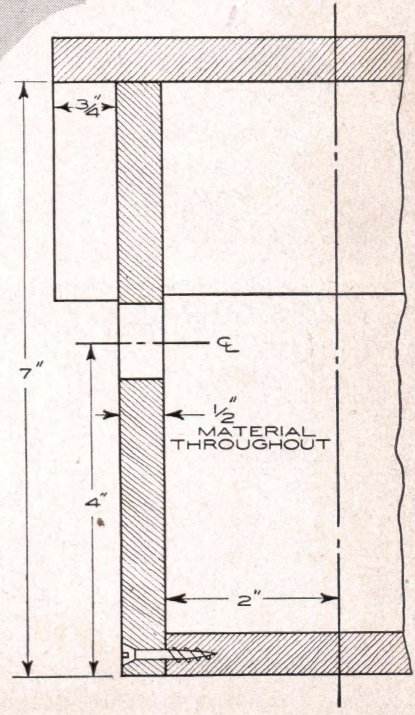
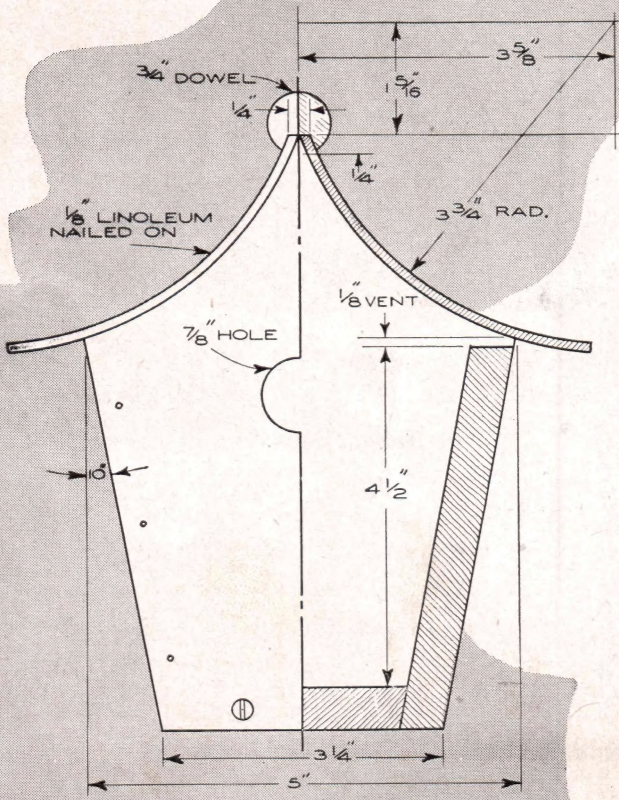
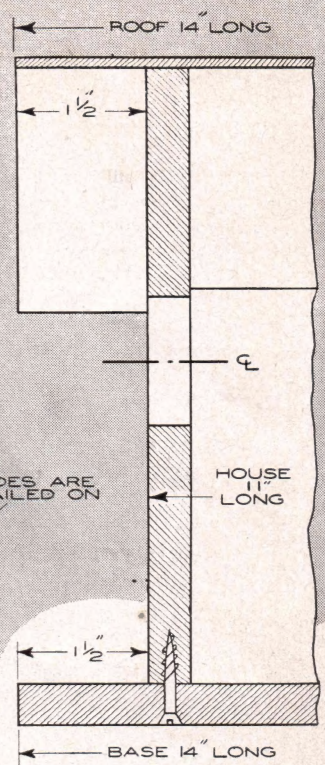
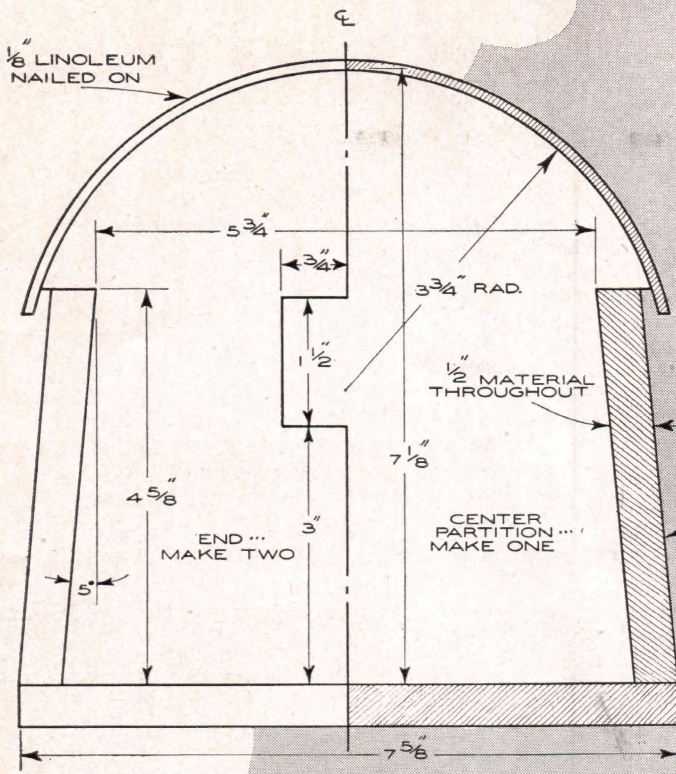
**WATCH FOR YOUR ORDER BLANK IN THE NEXT ISSUE.**



## BIRD HOUSES

☆ HERE are two more bird house designs to dress up your yard this summer. Both of these houses feature curved roofs which are made from  $\frac{1}{8}$ " linoleum. The houses are nailed together with the exception of the floor boards. These boards are fastened in place with wood screws so that they may be removed for cleaning. The houses may be left raw or painted to suit.







# SODA BAR

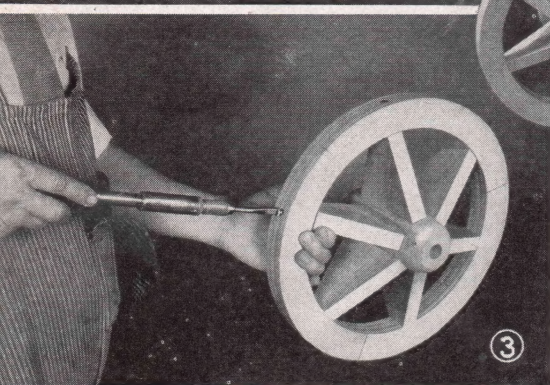
## *for the*

# LAWN

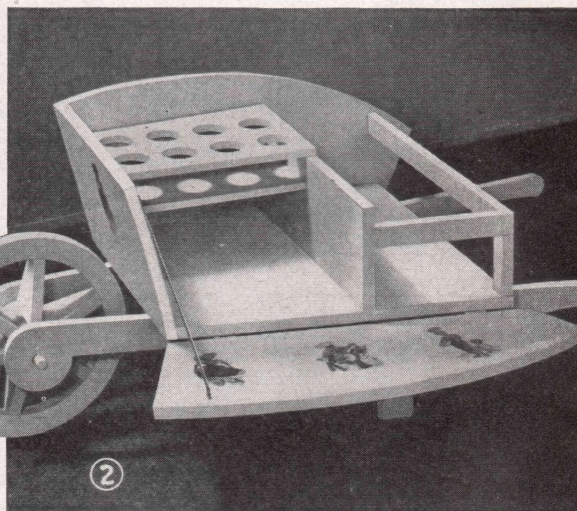
☆ HERE is a novel bar which will add to the convenience and attractiveness of your lawn furniture. The bar is built like a wheel barrow as shown in the photographs and the drawing on the following page. The same plan may be used to build an ordinary wheel



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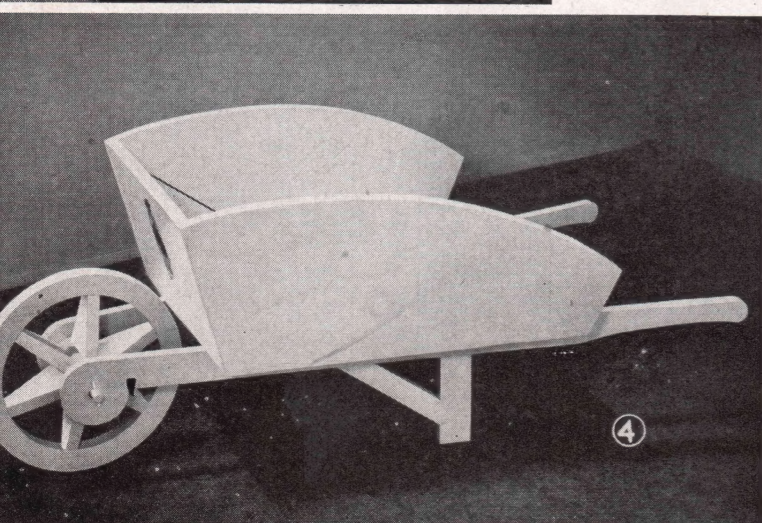
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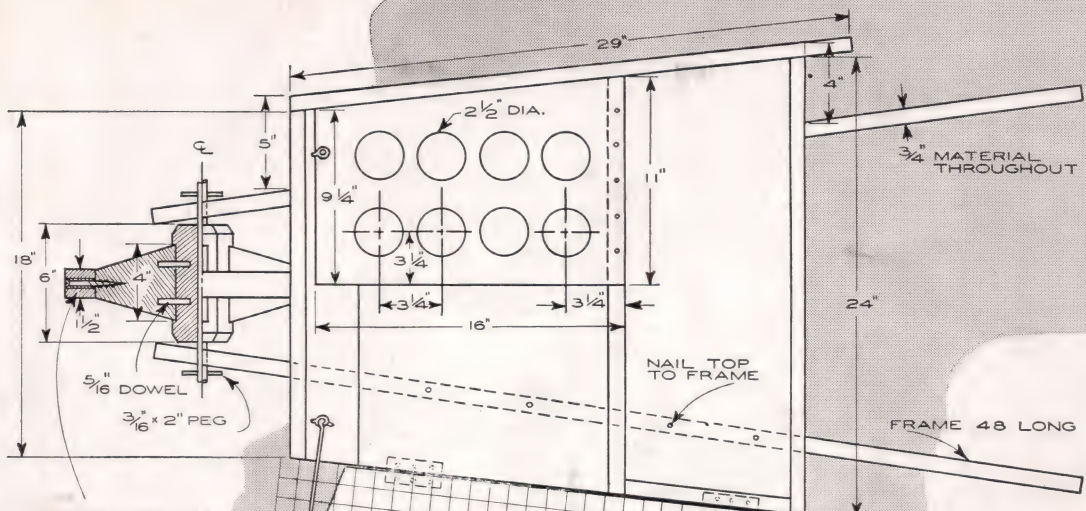
barrow which you can use in your garden work. Merely leave out the center racks and fasten the one side solid instead of hinging it. The only special treatment in this project is the construction of the wheel. The rim is made in three layers which are glued and nailed together as shown in the drawing detail.

The hub is cut into a hexagon shape on the circular saw, after which it is chucked in the lathe and the end corners are turned round. The spokes are doweled to the hub and the rim is then fastened with screws to the ends of the spokes. The original was finished with outside white paint and decorated with appropriate decals.



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CONSTRUCT RIM WITH THREE LAYERS OF 1/2" PLYWOOD

1" SQUARES

DETAIL OF WHEEL RIM

DETAIL OF WHEEL HUB

SPOKE

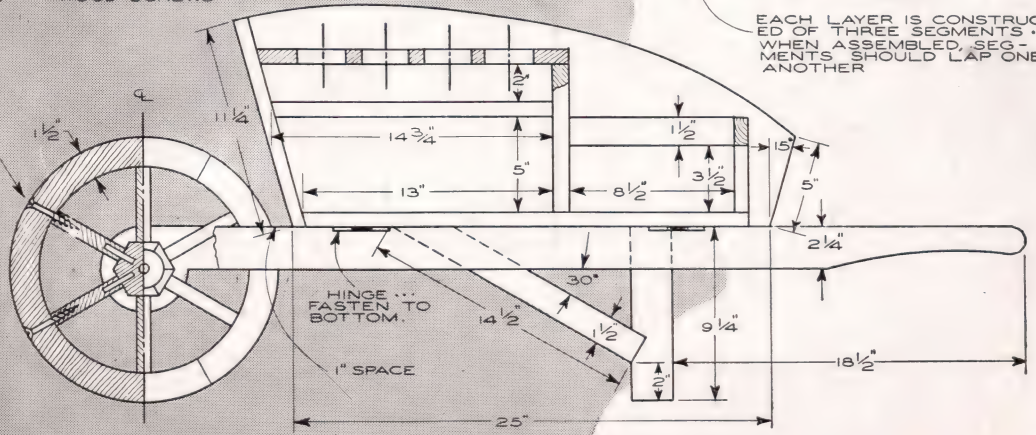
BEVEL

14" DIA.

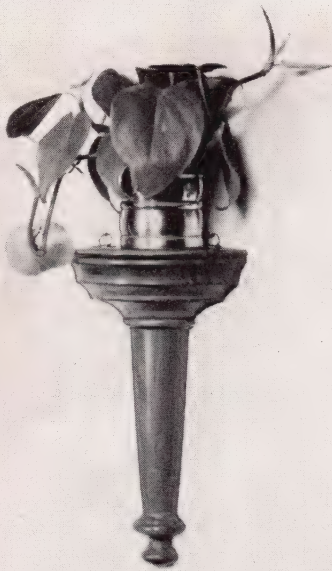
9/16" HOLE ... 1/2" DOWEL

2 3/4" NO 10 F.H. WOOD SCREWS

EACH LAYER IS CONSTRUCTED OF THREE SEGMENTS ... WHEN ASSEMBLED, SEGMENTS SHOULD LAP ONE ANOTHER



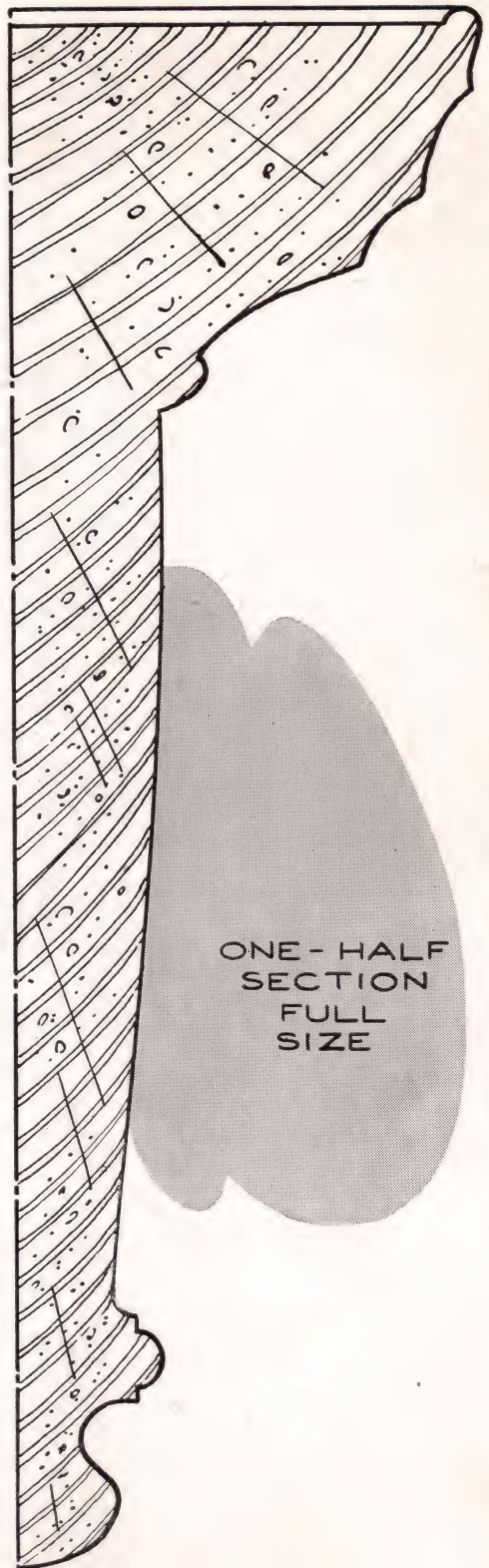




# TURNED WALL SHELF

## A PROJECT FOR YOUR LATHE

☆ SHOWN above is a simple lathe turning which makes a neat pair of turned wall shelves. A full-size section drawing of the shelf is shown on the right. Two halves of the complete turning should be glued up with a piece of newspaper between for turning. After the turning is completed and removed from the lathe a sharp chisel is used to split the two parts, thus leaving two complete wall shelves. A small potted plant in a brass container such as shown in the photograph above will make an attractive decoration for that blank wall space. Turn from walnut and finish natural.





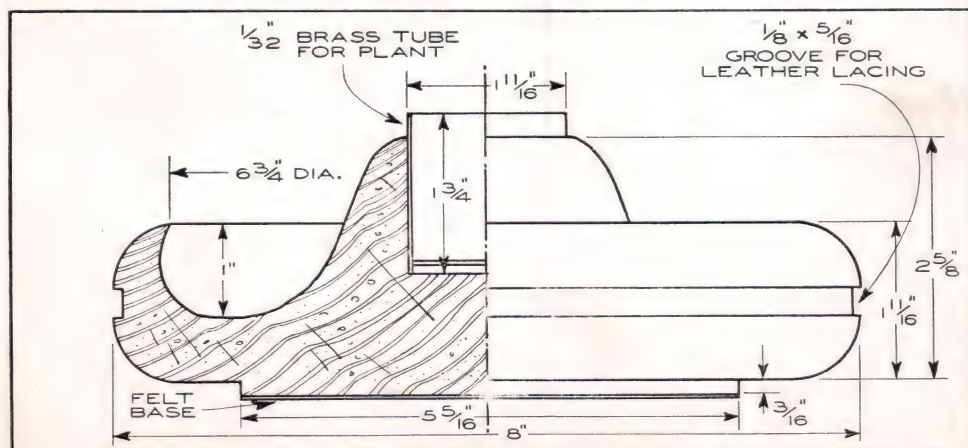


☆ THE Mexican hat design shown in the photograph on the left lends itself to the turning of western redwood or cedar. Select the wood with care as the finish will be left natural to show off the grain. Chuck the stock on the faceplate of your lathe and turn to the design shown in the drawing below.

The groove is turned in the outside edge for the woven rawhide or leather lacing as shown in the photograph. A brass tube is cut and fitted with a bottom soldered in place for holding the plant. This brass tube should be polished to a satin finish. A disk of felt is glued to the bottom of the wooden base so that it will not mar the table top. Finish the wood with white shellac and spar varnish.

# MEXICAN HAT DESIGN

MAKES AN ATTRACTIVE PLANT HOLDER







As seen in the photograph above, the drawers are furnished with a single turning split in half to form individual drawer pulls.



The end compartments which contain the drawers are made right and left hand as seen in the photograph at the left. The angle drawer fronts prevent these from being interchangeable.

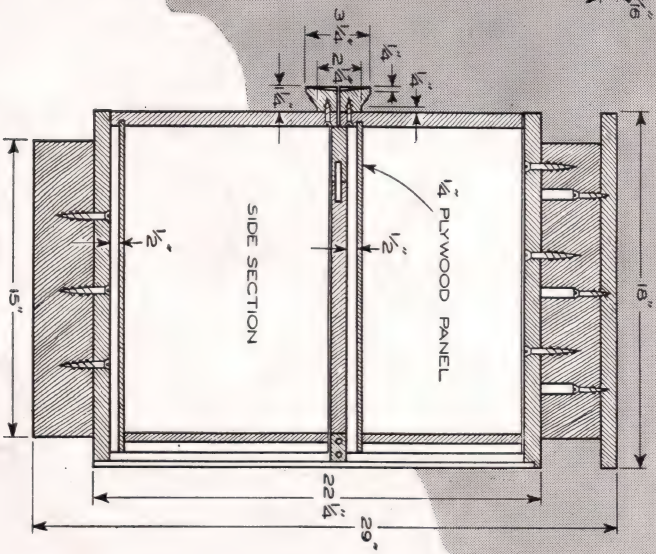
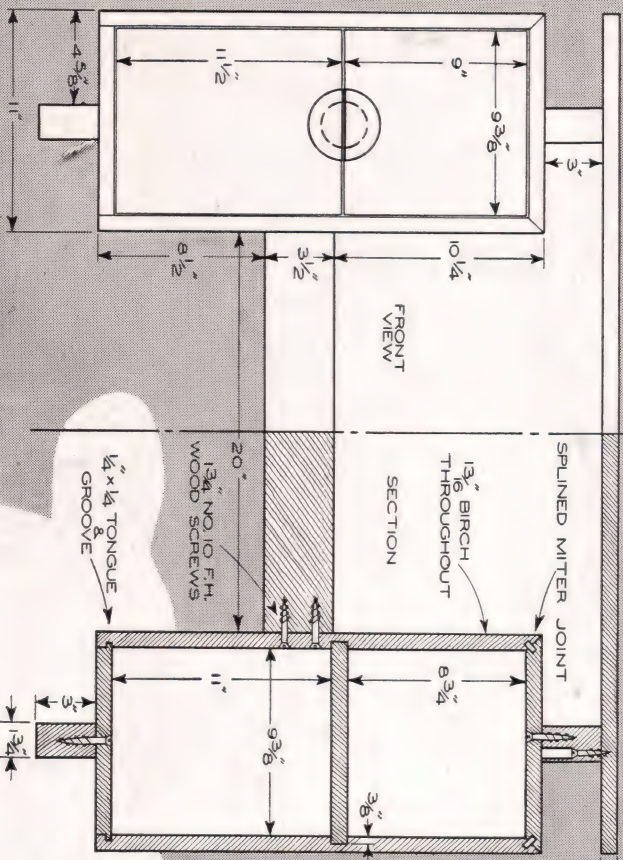
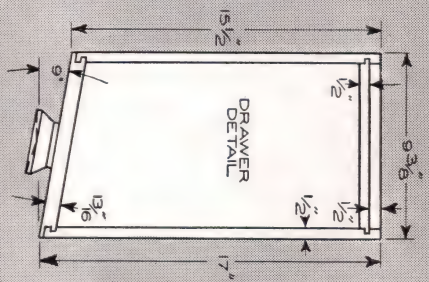
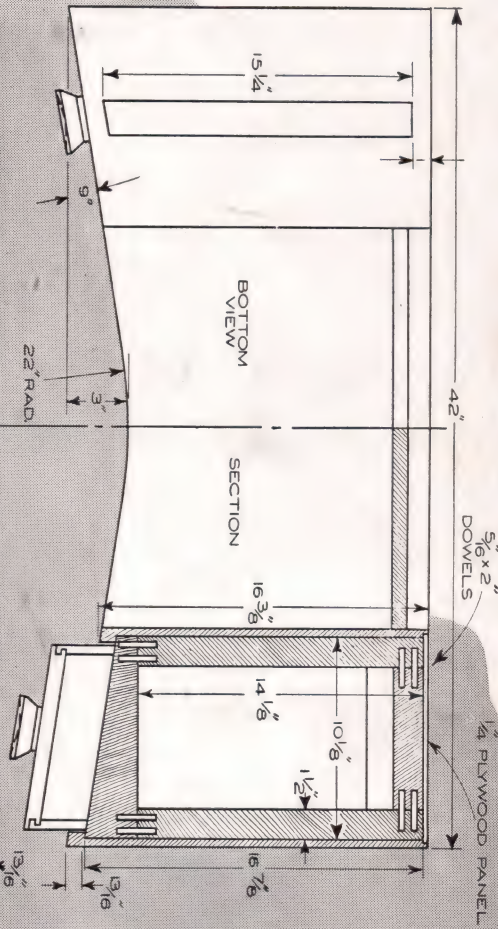


## A 20th CENTURY DESK FOR YOUR HOME

☆ HERE is a small desk of modern design which presents slightly different lines, giving it a rare unusual appearance. The desk is built from 13/16" birch or maple panel. The edges of the panel may be either painted to match the finish or 1/20 veneer facing may be glued in place to conceal the core wood. The construction details and complete dimensions are shown in the drawing on the following page. The drawer arrangement is different in that it has fronts that are set at a slight angle and a drawer pull which is divided in the middle to provide a pull for both the top and bottom drawer. This drawer pull is a lathe turning which may be built up either as a split turning or it may be cut in two after making a solid drawer pull.

In making the side compartments which hold the two sets of drawers be sure to make one right and one left hand. The feet and top spacers are then added to these end sections and screw fastened as shown in the drawing. The top spacers are first fastened to the under side of the top. The edges are then completed with either enamel or veneer and you are ready for the finish. The finish on the original desk is natural with white shellac and spar varnish.









As shown in the photograph above the dowel axle is glued solidly to the wheel and the axle itself turns freely in the two frame pieces which support it. The axle is kept from moving sideways by means of two locking dowels inserted in the ends of the axle.



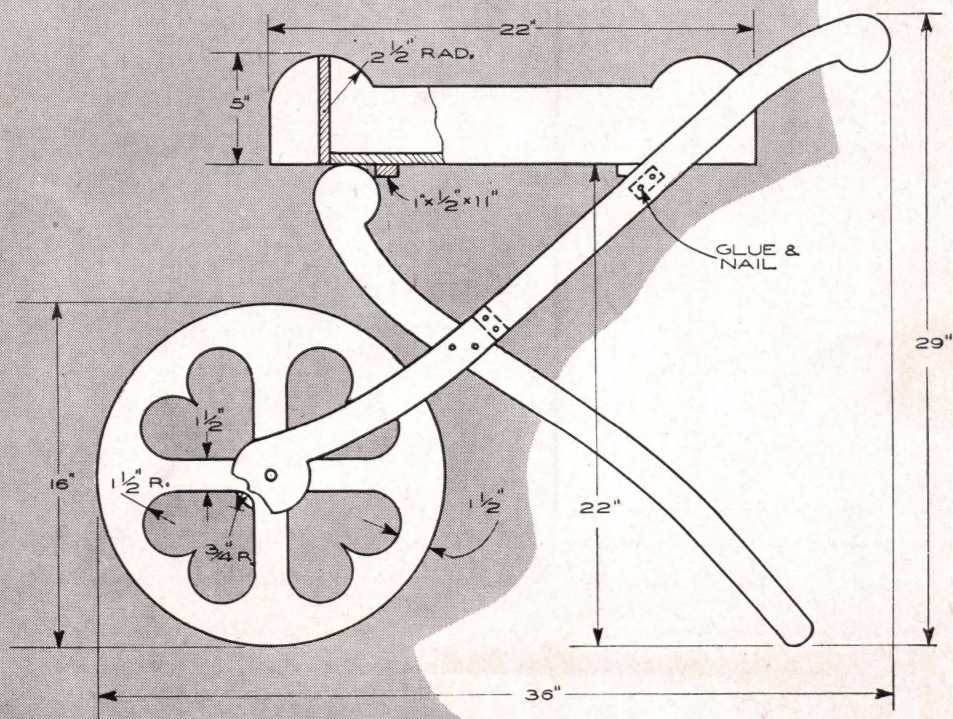
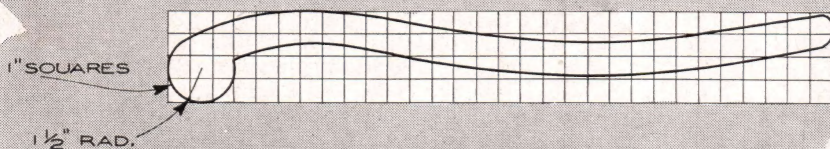
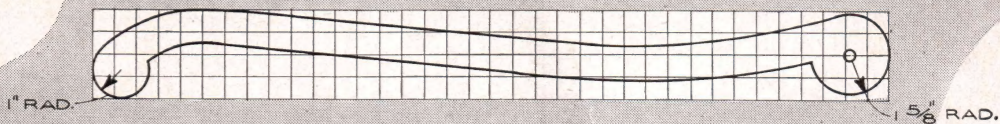
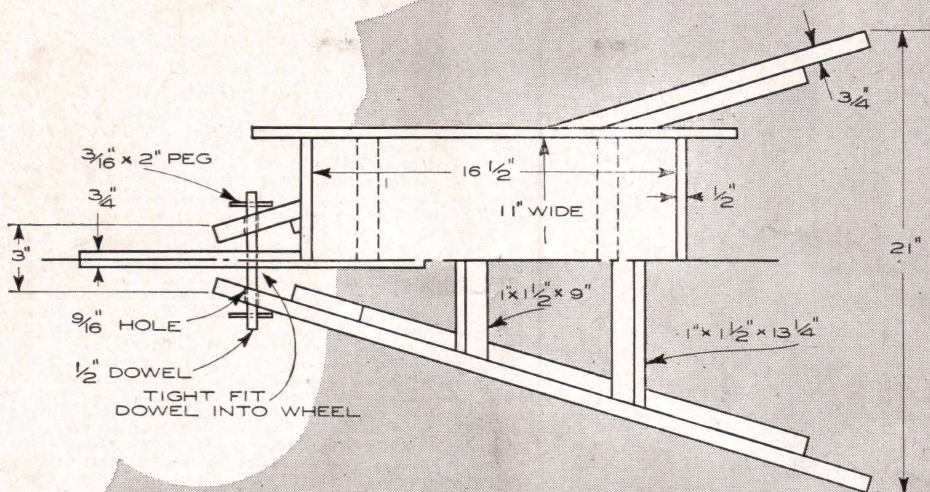
## *Wheel Out Your* **FLOWER GARDEN**

☆ **THIS** novel wheel barrow is a show-piece for your special flowers and plants. The drawing on the following page shows squared diagrams of the two side pieces. Make two of each and assemble as shown in the plan. The wheel is scroll-sawed from  $\frac{3}{4}$ " water-proof plywood and the  $\frac{1}{2}$ " dowel axle is glued solidly in place in the wheel. This dowel turns freely in the two frame pieces which support it. The box which contains the plants or flowers is made separately so that it may be lifted off and even used elsewhere if you like.

The entire assembly is nailed and glued together and then sealed with white shellac. Several coats of outside paint should then be used after which the sides of the box can be decorated with appropriate decal designs.









# FLYING CHIPS

## Forward Information to C. K. A.

**National City, California**—Please forward my experience to C. K. A. (Flying Chips Page, Issue No. 3, Vol. 16) concerning the effect of Cocobala Wood dust on the skin.

I have had this same trouble for five or six years living in a mountain cabin at which time I thought I had the effects of poison oak. One night upon retiring for bed I noticed quite an irritation on the back of my neck. I tried to recollect what I did that should cause this irritation. I knew for sure I was not in the garden, but I did remember that I was sanding some cocobala wood that evening. Just to make sure this was it, I took some cocobala dust mixed with water and injected some in my arm. After a few hours I began to feel the same effect as on the back of my neck.

I understand some people feel the irritation effect from a number of different woods. In Michigan, hemlock is very harmful. My eyes swelled so bad from hemlock that I was unable to see for quite some time. The best solution for these irritations I found was hot water applications.

D. C.

Our suggestion to all our readers on this subject is to find out first whether you are immune to cocobala dust before working it quite extensively.

## Bob Sled Plans

**Cleveland, Ohio**—This may be a request that your magazine can help me with, or perhaps tell me where I can get this plan.

I have been looking for a plan, not too much detail, of a bob sled that I might be able to build. It has been quite some time since I've seen one. I can't remember some of the details, especially the steering construction. I would greatly appreciate any help or information that you can give me.

I have several copies of your back issues of the Deltagram which have been very helpful, but was unable to find any ideas on bob sleds.

Just to avoid possible confusion between the type of sled used on the farm and the one used for coasting, the one for coasting is what I'm referring to.

W. E. B.

Sorry we don't have plans on the above project. It may be that one of the other home craft magazines featured an article on a bob sled in one of their past issues.

## Spring Mats for Furniture Cushions

**Goleta, California**—I am making an occasional chair as described in your booklet No. 4550, and would like to know where I can purchase the spring mats for the cushions. Can you give me a few names and addresses of some firms that handle this material?

B. H. F.

Any upholstery supply dealer stocks these items—here are two: Vonnegut Hdwe. Company, 120-124 E. Washington Street, Indianapolis, Indiana, and also Upholstery Supply Company, 1033 N. 4th Street, Milwaukee, Wisconsin.

## Hand Saw Handles

**Saginaw, Michigan**—I have been a subscriber to the Deltagram for many years and I like your magazine real well.

I now have a chance to make a lot of saw handles. Could you tell me if there is a special machine for this type of work? If there is, I would like to have a list of these manufacturers who make this type of equipment.

J. O.

Here are a few manufacturers of machines for making saw blade handles. Oliver Machinery Company, Grand Rapids, Michigan; Mattison Machine Works, Rockford, Illinois; Greenlee Tool Works, Rockford, Illinois.

## Special Turnings

**Anaheim, California**—My workshop is equipped with six Delta machines, each one is equipped with all the accessories available and necessary for average shop work. Besides the Delta machines I also have a precision screw cutting lathe.

I was wondering if you or some Deltagram readers could help me out with my recent problem.

Quite often I am asked to furnish wooden rollers from one-inch diameter up to three inches; some of these must be made in four-foot lengths. Since most of these have to be made of a specific type of wood, I have to turn each piece individually on the lathe. These rollers are used on hand weaving looms. Some require one-quarter inch steel pins in the ends which have to run reasonably true. For most of the one-inch size I used maple dowels, but these do not come very true. The larger sizes like 1½, 2, and 2½ inch I can't get in the materials called for. I could turn these out on my lathe, but the process is too slow. When turning the smaller sizes I get a lot of chatter marks which are very objectionable.

The Delta shaper with a special cutter works well on making smaller dowels. Would it be possible to have special cutters made for the larger turnings? Is there any other way a home workshop could be equipped to do this work? The price I have to sell these rollers for prohibits me from putting too much time on them.

T. M. J.

The lathe is the only machine we have to offer to do the home crafter for the above-mentioned rollers. If these have to be produced in large enough quantities it would be worth while to have these made by some local mill who have an automatic wood lathe. The largest cutters that can be used on the Delta shaper would be 1½ inches wide.

## Spraying Problem

**The Bronx, New York**—My problem is spraying refrigerators. I've tried several types of paints and enamels, but the results are a pimply effect over the greater surface of the project.

Can you tell me how to overcome this annoying situation. My sprayer has a tank with sixty pounds air pressure. Any information or books you can recommend will be greatly appreciated.

A. R.

For a spraying operation a good grade of lacquer or enamel used as outlined in our "Finishing Manual" give the best results. This book is obtainable from us for fifty cents a copy.

## Drilling Large Holes

**Lac Du Flambeau, Wisconsin**—I have a problem of making a four-inch hole, seven inches deep in a round piece of wood seven or eight inches in diameter and seven or eight inches long. What machine would you advise to do this job on, and how I can do it. If at all possible I'd like to make these holes in two or three minutes.

F. G.

The above operation can be made on a drill press with a special hole cutter and jig for holding the stock while drilling. Special cutters can be purchased from Circo Tool Company, 617 N. 2nd Street, Milwaukee 2, Wisconsin.

## Future Project for the Deltagram

**Tiskilwa, Illinois**—Do you have, or can you suggest where I might find drawings and specifications for a standard letter size filing cabinet? One of my difficulties is that I'm just a beginner in woodworking and the project needs to be as simple as possible. I will appreciate any help you can give me.

P. G. D.

We are making a note of this in our little black book as a future project for the Deltagram.



# DESIGNS

These are full size drawings which can be easily traced directly on the material to be cut. Paint the material with a flat coat of paint before drawing the design.







# NEW! ALL-PURPOSE CARBIDE TIPPED TURNING CHISELS



Diamond lapped ready for use. Two tools do the work of eight. Comes in two styles, Square Nose and Round Nose—two sizes  $\frac{1}{8}$ " for small, fine work and  $\frac{1}{4}$ " for larger, heavy work. Cuts free hand on all materials such as plexiglas, lucite, bakelite, fiber, wood, brass, bronze, aluminum, magnesium, copper, nickel, silver, etc.—all on regular wood turning lathe at wood turning speeds.

You can turn metals and plastics free hand as easily as wood. You need no heavy compound

tool rests or bulky expensive equipment. Chisels have extremely long cutting life. Require little or no sharpening.

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• This new chisel will find many uses in the workshop of the home crafter, model-maker, pattern-maker, machinist, cabinet-maker, and carpenter. These chisels are immediately available to you. Send for your set today or see your nearest dealer.

## PRACTICAL PROJECTS

### BOOK No. 12

• The new Practical Project Book No. 12 is now available. It contains a collection of projects which appeared in the 1944-45 DeltaGram. Some of the plans included are glass top occasional table, cigarette server, armchair, turned wine set, mirror cabinet, poker chip rack, baby's shoe bank, table lamp, juvenile table and chairs, clothes hanger, coffee table, floor lamp, Mexican corner shelf, modern desk, bird houses and many others.



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